

WDN:SLR 5/9/06 516307.doc  
PATENTAttorney Reference Number 6907-55924-01  
Application Number 09/729,658Amendments to the Claims

1. (Currently Amended) A method of increasing one or more of hair follicle development[[,]] or sweat gland development in a newborn subject suffering from X-linked hypohidrotic ectodermal dysplasia (XLHED) or autosomal hypohidrotic ectodermal dysplasia (HED), comprising administering an amount of EDA1-II protein to the subject sufficient to promote one or more of hair follicle development or sweat gland development, wherein the EDA1-II protein comprises an amino acid sequence having at least 95% sequence identity to 153 amino acids 239-391 of SEQ ID NO: 2 and can promote one or more of hair follicle development or sweat gland development in the subject.
2. (previously presented) The method of claim 1, wherein the method is a method of increasing hair follicle development.
3. (Canceled)
4. (previously presented) The method of claim 1, wherein the method is a method of increasing sweat gland development.
5. - 22. (canceled)
23. (Previously Presented) The method of claim 1, wherein the EDA1-II protein is a recombinant protein.
24. (Currently Amended) The method of claim 1, wherein the EDA1-II protein comprises an amino acid sequence having at least 95% identity to SEQ ID NO: 2 ~~and which encodes a polypeptide~~ that enhances EDA1-II activity in the subject.
25. (Currently Amended) The method of claim 1, wherein the amino acid sequence comprises an amino acid sequence having at least 98% identity to SEQ ID NO: 2 ~~and which encodes a polypeptide~~ that enhances EDA1-II activity in the subject.
26. (original) The method of claim 25, wherein the amino acid sequence comprises an amino acid sequence shown in SEQ ID NO: 2.
27. - 62. (canceled)
63. (Previously Presented) The method of claim 1, wherein the EDA1-II protein is a fusion protein.
64. (canceled)
65. (Previously Presented) The method of claim 1, wherein the EDA1-II protein comprises amino acids 239-391 of SEQ ID NO: 2.

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66. – 72. (Canceled)

73. (Currently Amended) The method of claim [[7]]2, wherein the EDA1-II protein comprises amino acids 239-391 of SEQ ID NO: 2.

74. (Currently Amended) The method of claim [[72]]1, wherein administering an amount of EDA1-II protein to the tissue subject comprises intraperitoneal administration.

75. (Canceled)

76. (Currently Amended) The method of claim [[75]]4, wherein the EDA1-II protein comprises amino acids 239-391 of SEQ ID NO: 2.

77. (Canceled)

78. (New) The method of claim 1, wherein the EDA1-II protein consists of amino acids 239-391 of SEQ ID NO: 2.